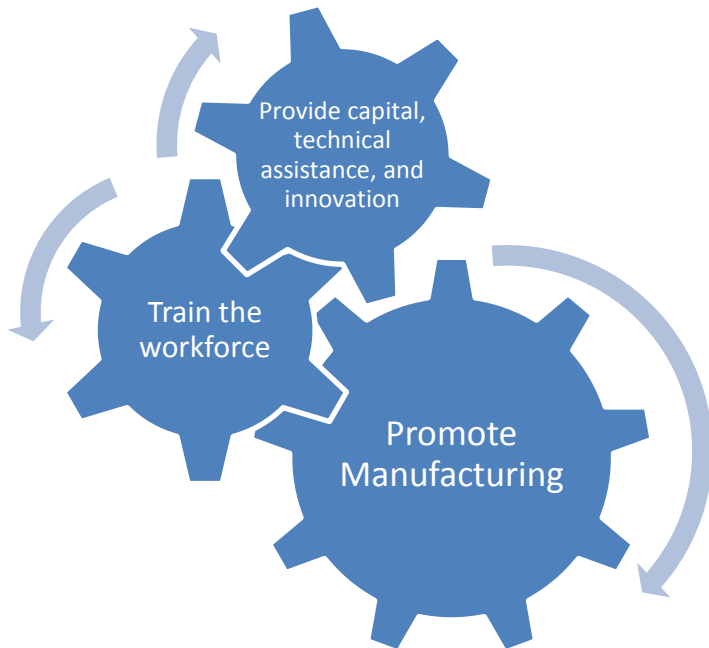


# ADVANCED MANUFACTURING

Advanced Manufacturing is an essential part of the state's innovation economy. With over 250,000 workers and 7,000 firms, manufacturers compete in global markets and are leading employers in the state's regional economies.



## ABOUT

Massachusetts manufacturers are world-class companies that are an essential part of the state's innovation economy. Today's manufacturing industry is growing and offers outstanding career opportunities in communities throughout the state. Studies by the [Massachusetts Institute of Technology](#) and [Northeastern University](#) show that advanced manufacturing is vibrant in Massachusetts, but cannot continue to compete without sustained collaboration between industry, academia and government.

7k+ manufacturers  
average salary \$75k

## STRATEGY

### The Advanced Manufacturing Collaborative

Governor Patrick and the Legislature established the Massachusetts Advanced Manufacturing Collaborative (AMC) to bring together business and academic leaders with government to create a manufacturing agenda for the 21<sup>st</sup> century. The AMC is business-led, and focuses on key issues identified by industry and backed by independent research. The AMC focuses on: promoting manufacturing careers; rebuilding and improving the workforce and education system; connecting manufacturing to the latest technologies and innovations; addressing the cost of doing business; and, improving access to capital resources. To learn more, visit: [www.mass.gov/hed/manufacturing](http://www.mass.gov/hed/manufacturing).

### Promoting Manufacturing – AMP it UP!

MassDevelopment's AMP it up! campaign shows students, parents, guidance counselors, and teachers how advanced manufacturing careers can put them on the path to success. In its second and most recent grant round, MassDevelopment provided \$108,950 in matching grants to 11 partnerships that consisted of workforce investment boards, community colleges, and industry associations who used funds to develop community-based programs and activities that educate students and the adults in their lives about career options in advanced manufacturing. For more visit: [www.ampitupma.com](http://www.ampitupma.com).

## Advanced Manufacturing Education and Workforce Training Programs

Massachusetts has taken a comprehensive approach to rebuilding the quality and capacity of the state's manufacturing training programs. We have focused on sector-strategies led by regional partnerships composed of employers, workforce boards and career centers, community colleges and vocational schools. Our public investments support training programs for new workers; worker training for current employees and companies; and capital investments to modernize training equipment in shared-used facilities. Ongoing programs include:

- The **Advanced Manufacturing, Technology, & Hospitality Training Trust Fund**, a \$12.3 million fund at Commonwealth Corporation established in 2014 to train new workers.
- The **Workforce Training Fund Program** which helps Massachusetts businesses with grants to invest in workforce development, improve employee skills, and maintain the economic strength and viability of Massachusetts businesses.
- The **Industry Training Capital Equipment Grant Program** to support the development or expansion of workforce and educational facilities to train new and existing workers in advanced manufacturing.
- In addition, the **Advanced Manufacturing Regional Partnership Academy**, managed by the Mass Tech Collaborative with Commonwealth Corporation, provides peer learning and support for regional partnerships to improve the quality of their sector strategies. For more information, visit: <http://amrpa.wordpress.com>.

## MassDevelopment & The Advanced Manufacturing Futures Fund

MassDevelopment plays a leading role in meeting the capital needs and business challenges of manufacturers through its portfolio of lending, technical assistance and financing capabilities. In addition, the state has entrusted MassDevelopment with management of the Advanced Manufacturing Futures Fund, a \$18.75 million fund established in 2012 to support innovative or critical programs and initiatives that execute the state's manufacturing strategy. The fund is used to support AMP it UP! among other programs.

## Massachusetts Manufacturing Extension Partnership (MassMEP)

The MassMEP is the state's affiliate of the U.S. Department of Commerce NIST's Hollings Manufacturing Extension Partnership (MEP), a national network of 59 centers that provide assistance to small and midsize manufacturers. MassMEP provides expert assistance in across the range of areas critical to help companies strategically grow, including: systemic continuous improvement, sustainability, technology acceleration, and global supply chain. MassMEP is also a leader in workforce development training,

# NEXT STEPS

In collaboration with industry leaders and academics, Massachusetts has made significant progress establishing an agenda and a framework of programs and partnerships that begin to meet manufacturer's needs. However, it's reported that over the next 10 years, Massachusetts will need an additional 100,000 skilled workers to keep pace with demand. The core focus of the AMC and its partners is to continue to execute, expand workforce training capacity in the state and promote manufacturing. As that is being done, the AMC is working with experts from MIT and elsewhere to measure the state's progress and establish new priorities.